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Listing and Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (currently amended): A gas discharge lamp with

- a discharge vessel-(2),;

- electrodes (4, 5) projecting into the discharge vessel (2); and

- a translucent, electrically conductive screening-(9, 23) which screens the discharge

vessel (2) and comprises connection means (10, 11, 24, 27, 28) for providing an at least

high-frequency connection between the screening (9, 23) and a screening (14, 17, 19) of an

electrical system used for operating the gas discharge lamp-(1) so as to form a coaxial

screening system enclosing the discharge vessel (2) with the electrodes (4, 5) during

operation of the gas discharge lamp-(1); and

- a conductor track, situated along a surface of the gas discharge lamp screening that

encloses the discharge vessel, having a lower omhic resistance than portions of the gas

discharge lamp screening that is employed to enhance the conductivity of the gas discharge

lamp screening.

2. (currently amended): A-The gas discharge lamp as claimed in claim 1, characterized in

that wherein the gas discharge lamp (1) comprises an outer bulb (8) surrounding the

discharge vessel-(2), and the screening-(9) comprises a layer of conductive translucent

material or a grid structure of conductive material arranged in or on a wall of the outer bulb

(8).

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3. (currently amended): A-The gas discharge lamp as claimed in claim 1, characterized in

that wherein the screening (9) has an at least high-frequency connection to the screening

(14, 17, 19) of the electrical system used for operating the gas discharge lamp (1) in two

mutually opposed locations of the gas discharge lamp-(1) during operation thereof.

4. (currently amended): A The gas discharge lamp as claimed in claim 1, characterized in

that wherein at least one of the electrodes (5) is electrically connected to a supply line (13)

comprising a screening (14), and the screening (9) of the gas discharge lamp (1) is

connected with electrical conduction to the screening (14) of said supply line (13).

5. (currently amended): A-The gas discharge lamp as claimed in claim 1, characterized

by wherein a supply line (25, 26) extending inside the screening (9) of the gas discharge

lamp (1) and connected to one of the electrodes (5).

6. (currently amended): A-The gas discharge lamp as-claimed in claim 1, characterized in

that wherein the screening (9, 23) of the gas discharge lamp (1) is connected with electrical

conduction to a screening (17) of a lampholder during operation of the gas discharge lamp

(1).

7. (currently amended): A gas discharge lamp as claimed in claim 1, characterized in that

comprising:

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- <u>a discharge vessel;</u>
- electrodes projecting into the discharge vessel;
- a translucent, electrically conductive screening which screens the discharge vessel
 and comprises connection means for providing an at least high-frequency
 connection between the screening and a screening of an electrical system used for
 operating the gas discharge lamp so as to form a coaxial screening system
 enclosing the discharge vessel with the electrodes during operation of the gas
 discharge lamp.
- wherein the screening of the gas discharge lamp serves as a <u>power</u> supply line and is electrically connected to one of the electrodes.
- 8. (currently amended): A-The gas discharge lamp as-claimed in claim 7, characterized in that wherein the electrode (5) is connected to a supply line (30) which is arranged in parallel to the screening (9) of the gas discharge lamp (1).
- 9. (currently amended): A The gas discharge lamp as claimed in claim 8, characterized by wherein an inductive element (31) included in the additional return line (30).
- 10. (currently amended): A-The gas discharge lamp as-claimed in claim 7, characterized in that wherein the screening (9) of the gas discharge lamp (1) is coupled to a screening (17) of a lampholder via a capacitive component (28) during operation of the gas discharge lamp (1).

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11. (currently amended): A-The gas discharge lamp as claimed in claim 7, eharacterized in that wherein the screening (9) of the gas discharge lamp (1) is connected to the other electrode (4) via a capacitive component (29).

12. (currently amended): A headlight or luminaire with a gas discharge lamp-(1) as claimed in claim 1 and with an electrical system for operating the gas discharge lamp-(1), which system has a screening-(14, 17, 19), wherein the screening-(9, 23) of the gas discharge lamp-(1) is connected to the screening-(14, 17, 19) of the electrical system at least as regards high frequencies so as to form a coaxial screening system enclosing the discharge vessel-(2) and its electrodes-(4, 5).

13. (new): A gas discharge lamp with

a discharge vessel,

electrodes projecting into the discharge vessel,

a translucent, electrically conductive screening which screens the discharge vessel and comprises connection means for providing an at least high-frequency connection between the screening and a screening of an electrical system used for operating the gas discharge lamp so as to form a coaxial screening system enclosing the discharge vessel with the electrodes during operation of the gas discharge lamp,

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wherein at least one of the electrodes is electrically connected to a supply line comprising a screening within a coaxial cable, and the screening of the gas discharge lamp is connected with electrical conduction to the screening of said supply line.

14. (new): A gas discharge lamp comprising:

a discharge vessel,

electrodes projecting into the discharge vessel,

a translucent, electrically conductive screening which screens the discharge vessel and comprises connection means for providing an at least high-frequency connection between the screening and a screening of an electrical system used for operating the gas discharge lamp so as to form a coaxial screening system enclosing the discharge vessel with the electrodes during operation of the gas discharge lamp;

wherein at least one of the electrodes is connected to a supply line arranged in parallel to the screening of the gas discharge lamp; and

wherein an inductive element is included in the additional return line.

15. (new): A gas discharge lamp comprising:

a discharge vessel,

electrodes projecting into the discharge vessel,

a translucent, electrically conductive screening which screens the discharge vessel and comprises connection means for providing an at least high-frequency connection between the screening and a screening of an electrical system used for operating the gas

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discharge lamp, so as to form a coaxial screening system enclosing the discharge vessel

with the electrodes during operation of the gas discharge lamp;

wherein the screening of the gas discharge lamp serves as a supply line and is

electrically connected to one of the electrodes, and

wherein the screening of the gas discharge lamp is coupled to a screening of a

lampholder via a capacitive component during operation of the gas discharge lamp.

16. (new): A gas discharge lamp comprising:

a discharge vessel,

electrodes projecting into the discharge vessel,

a translucent, electrically conductive screening which screens the discharge vessel

and comprises connection means for providing an at least high-frequency connection

between the screening and a screening of an electrical system used for operating the gas

discharge lamp, so as to form a coaxial screening system enclosing the discharge vessel

with the electrodes during operation of the gas discharge lamp,

wherein the screening of the gas discharge lamp serves as a supply line and is

electrically connected to one of the electrodes, and

wherein the screening of the gas discharge lamp is connected to another one of the

electrodes via a capacitive component.

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